

REMARKS

Claims 1-7 are all the claims pending in the application.

Claims 1 and 2 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 1-7 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Takahashi et al. (US 6,344,880, hereafter "Takahashi") in view of Chauvel et al. (US 6,452,641, hereafter "Chauvel"). Applicant respectfully traverses the rejections as set forth below.

The present invention relates to an on screen multi cursor display apparatus and method for displaying OSD cursor display data in a plurality of cursor display locations on a screen. An exemplary embodiment of the present invention is shown in FIG. 1, including a set top box 100, which receives a digital satellite broadcast signal through a satellite antenna 104 connected through a coaxial cable 102. The set top box 100 detects an MPEG transport stream from the received broadcast signal and provides the detected MPEG transport stream to a DTV 300. The set top box 100 inputs a command generated through a remote controller 110, and corresponding OSD data is generated in response to the inputted command and provided to the DTV 300 through a DTV 1394 bus 200. The DTV 300 recovers an image signal by decoding the received MPEG transport stream through an MPEG decoder and displays on a screen, by overlapping, the recovered image signal and the received OSD data.

Takahashi relates to a method for displaying an electronic program guide on a display screen, including displaying channel icons, selecting one of the icons, displaying a title bar

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corresponding to the selected icon, selecting the title bar, and displaying explanatory information about a program indicated by the title bar.

Chauvel relates to an apparatus and method for providing an OSD with variable resolution capability for allowing different parts of a screen to be processed according to the various resolution requirements.

Claims 1 and 2 stand rejected under 35 U.S.C. § 112, first paragraph, based on the use of the term “multi cursor display data.” Applicant submits that one of ordinary skill in the art would know the meaning of “OSD multi cursor display data.” Support for the meaning of the term can be seen in the present specification at page 1, line 13 - page 3, line 9. Also, Applicant herein amends the specification in accordance with the claims to show that “OSD data” refers to “OSD cursor display data.”

Claims 1-7 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Takahashi in view of Chauvel.

Applicant submits that Takahashi fails to teach or suggest all of the limitations of the claims. Specifically, Takahashi does not disclose an OSD source for transmitting a plurality of OSD multi cursor display data by giving each OSD multi cursor display data a peculiar ID and transmitting a selected OSD multi cursor ID and display location information in the case that there is an OSD multi cursor display command from the OSD source remote controller, as required by claim 2. The Examiner cites col. 12, lines 23-33 of Takahashi as allegedly disclosing this feature of the present invention, but Applicant respectfully disagrees.

Takahashi does not disclose giving each OSD multi cursor display data a peculiar ID. Instead, the cited excerpt of the reference merely states that the genre of the programs, which are

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being broadcast in the channels represented by the information icon parts EY, is displayed by genre identification codes CO based on their color or pattern. In other words, Takahashi discloses the use of genre IDs, but does not disclose or suggest giving each OSD multi cursor display data a peculiar ID.

Also, Takahashi does not disclose transmitting a selected OSD multi cursor ID and display location information in the case that there is an OSD multi cursor display command from the OSD source remote controller. The excerpt cited by the Examiner refers to the displaying of data on the screen, rather than the transmitting of selected OSD multi cursor ID and display location information by an OSD source. Moreover, the remainder of the reference does not disclose the aforementioned feature of claim 1.

Since Chauvel fails to make up for these deficiencies of Takahashi, Applicant submits that claim 2 is allowable over the prior art.

Furthermore, Applicant submits that the display apparatus for displaying OSD multi cursor display data on a screen at a given display location in response to the received OSD multi cursor ID and display location information of claim 2 is not taught or suggested by Chauvel. The excerpt cited by the Examiner (col. 10, lines 30-39) is silent with respect to the “in response to the received OSD multi cursor ID and display location information” aspect of this feature of claim 2. Since the remainder of Chauvel also fails to disclose this feature of claim 2, Applicant submits that claim 2 is allowable over the prior art for this additional reason.

Furthermore, claims 3-7 are allowable over the prior art, at least because of their dependence from claim 2.

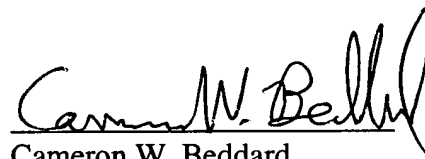
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Regarding claim 1, Applicant submits that claim 1 is allowable over the prior art for reasons analogous to those presented above in relation to claim 2.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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